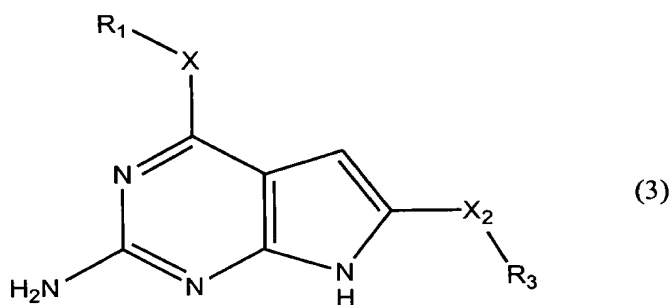


group, a substituted aryl group, a substituted heteroaryl group, a substituted alkylaryl group, a substituted alkylheteroaryl group, and *p*-aroyl-glutamate;

and each substituent of any substituted group is the same or different and is selected from the group consisting of a straight, branched or cyclic lower alkyl, alkenyl or alkynyl group of from one to about 6 carbons, an alkoxy group, an alkoxyaryloxy group, and a halogen.

**In the claims:**

22. (Amended) A compound, and pharmaceutically acceptable salts, solvates and prodrugs thereof, having the formula (3):



where X and X<sub>2</sub> are from one to about three atoms, are the same or different and if R<sub>1</sub> or R<sub>3</sub> is not present, are independently selected from the group consisting of hydrogen, an alkyl group, an alkenyl group, a heteroalkyl group and a heteroalkenyl group, and if R<sub>1</sub> or R<sub>3</sub> is present, X and X<sub>2</sub> are independently selected from the group consisting of an alkylene group, a heteroalkylene group, an alkenylene group and a heteroalkenylene group;

and any carbons or nitrogens of said alkyl group, alkylene group, alkenyl group, alkenylene group, heteroalkyl group, heteroalkylene group, heteroalkenylene group or heteroalkenyl group can optionally be substituted with a straight, branched or cyclic lower alkyl group of from 1 to about 6 carbons;

at least one of R<sub>1</sub> or R<sub>3</sub> is present;

if present, R<sub>1</sub> is selected from the group consisting of hydrogen, an alicyclic group, a heterocyclic group, an aryl group, a heteroaryl group, an alkylaryl group, a alkylheteroaryl group, a substituted aryl group, a substituted heteroaryl group, a substituted alkylaryl group and a substituted alkylheteroaryl group;

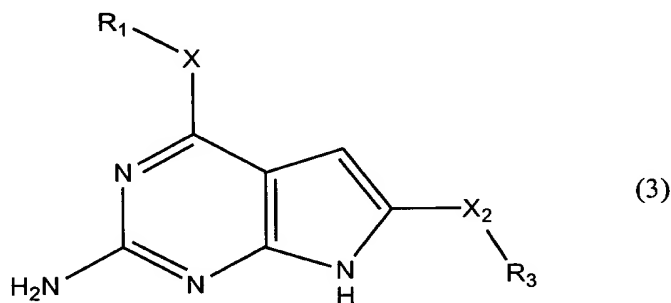
if present, R<sub>3</sub> is selected from the group consisting of hydrogen, an alicyclic group, a heterocyclic group, an aryl group, a heteroaryl group, an alkylaryl group, a

alkylheteroaryl group, a substituted aryl group, a substituted heteroaryl group, a substituted alkylaryl group, a substituted alkylheteroaryl group, and *p*-aroyl-glutamate;

and each substituent of any substituted group is the same or different and is selected from the group consisting of a straight, branched or cyclic lower alkyl, alkenyl or alkynyl group of from one to about 6 carbons, an alkoxy group, an alkoxyaryloxy group, and a halogen.

29. (Amended) A method of inhibiting at least one enzyme selected from

the group consisting of a receptor tyrosine kinase, dihydrofolate reductase and thymidylate synthase, for treatment of a disease condition in a patient, mediated by inhibition of any of these enzymes, by administering to a patient in need thereof an effective amount of a compound having the formula (3):



where X and X<sub>2</sub> are from one to about three atoms, are the same or different and if R<sub>1</sub> or R<sub>3</sub> is not present, are independently selected from the group consisting of hydrogen, an alkyl group, an alkenyl group, a heteroalkyl group and a heteroalkenyl group, and if R<sub>1</sub> or R<sub>3</sub> is present, X and X<sub>2</sub> are independently selected from the group consisting of an alkylene group, a heteroalkylene group, an alkenylene group and a heteroalkenylene group;

and any carbons or nitrogens of said alkyl group, alkylene group, alkenyl group, alkenylene group, heteroalkyl group, heteroalkylene group, heteroalkenylene group or heteroalkenyl group can optionally be substituted with a straight, branched or cyclic lower alkyl group of from 1 to about 6 carbons;

at least one of R<sub>1</sub> or R<sub>3</sub> is present;

if present, R<sub>1</sub> is selected from the group consisting of hydrogen, an alicyclic group, a heterocyclic group, an aryl group, a heteroaryl group, an alkylaryl group, a alkylheteroaryl group, a substituted aryl group, a substituted heteroaryl group, a substituted alkylaryl group and a substituted alkylheteroaryl group;

Q6 if present, R<sub>3</sub> is selected from the group consisting of hydrogen, an alicyclic group, a heterocyclic group, an aryl group, a heteroaryl group, an alkylaryl group, a alkylheteroaryl group, a substituted aryl group, a substituted heteroaryl group, a substituted alkylaryl group, a substituted alkylheteroaryl group, and *p*-aroyl-glutamate;

and each substituent of any substituted group is the same or different and is selected from the group consisting of a straight, branched or cyclic lower alkyl, alkenyl or alkynyl group of from one to about 6 carbons, an alkoxy group, an alkoxyaryloxy group, and a halogen.

Q7 31. The method of Claim 29, wherein said disease condition is tumor growth, cell proliferation or angiogenesis.

32. The method of Claim 29, wherein said disease condition is selected from the group consisting of infection caused by *Pneumocystis carinii*, *Toxoplasma gondii*, *Mycobacterium tuberculosis* and *Mycobacterium avium*.

Q8 34. The method of Claim 30, further comprising the step of administering said compound by a method selected from the group consisting of parenteral administration, oral administration and topical administration.

**Please add the following new claims:**

- Q9 35. R<sub>1</sub> The compound of Claim 22, wherein X is NH-.
36. The compound of Claim 35, wherein R<sub>1</sub> is *m*-bromobenzene.
37. The compound of Claim 36, wherein X<sub>2</sub> is CH<sub>2</sub>-CH<sub>2</sub>.
38. The compound of Claim 37, wherein R<sub>3</sub> is 2-pyridine.
39. The compound of Claim 37, wherein R<sub>3</sub> is benzene.
40. The compound of Claim 37, wherein R<sub>3</sub> is *p*-methoxy benzene.
41. The compound of Claim 37, wherein R<sub>3</sub> is *o*-chlorobenzene.
42. The compound of Claim 37, wherein R<sub>3</sub> is 1-naphthalene.
43. The compound of Claim 37, wherein R<sub>3</sub> is 2-naphthalene.
44. The compound of Claim 29, wherein X is NH-.
45. The compound of Claim 44, wherein is *m*-bromobenzene.
46. The compound of Claim 45, wherein X<sub>2</sub> is CH<sub>2</sub>-CH<sub>2</sub>.
47. The compound of Claim 45, wherein R<sub>3</sub> is 2-pyridine.
48. The compound of Claim 45, wherein R<sub>3</sub> is benzene.
49. The compound of Claim 45, wherein R<sub>3</sub> is *p*-methoxy benzene.